

UNIVERSITETET I BERGEN
JORDSKJELVSTASJONEN
(Seismological Observatory)

Seismological Bulletin
Kirkenes, Norway
1964—1965

By
ANDERS SØRNES and EIRIK SUNDVOR

BERGEN — NORWAY 1968

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Kirkenes (Krk), Norway

Latitude: 69° 43' 27" N
 Longitude: 30° 03' 45" E
 Elevation: 25 meters
 Foundation: Gneiss-granite

The station is part of the World-wide Standardized Seismograph Network. The station has a three-component (NS, EW, Z) short- and long period system as follows.

Instruments	Period sec		Magnification at T _s	Damp. ratio
	T _g	T _s		
Sp Benioff	0,75	1	25.000	17 : 1
LP Sprengnether	100	30	1.500	critical

The station is located in security room near the center of Kirkenes. It has been in normal operation since January 1964. The arrival time given for each phase is the earliest onset of that phase on any component.

The logarithm of the amplitude/period ratio, $\log \frac{A}{T}$, is given when it is possible. The amplitude A is read from the vertical short-period component and given in millimicrons as the maximum center to peak displacement within the first few cycles of the initial arrival of P or PKP. The predominant period T in the seismogram where A is observed is given in seconds.

The readings have been punched on cards according to the codes given by the International Seismological Centre in Edinburgh. This bulletin is a reproduction of a print-out of the cards sent us from the Centre in Edinburgh. Capital letters are used only, and pP for example is indicated by *PP.

KIRKENES (Krk) SEISMIC STATION BULLETIN - 1964 PAGE 1

YEAR	MTH	DY	HR	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG
				M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T
1964									
JAN	06	23	E54	40	62	09	L 73 28		
JAN	09	03	E09	15			PCP 10 04	E 35 56	
JAN	10	05	C100	45.2	08	50	PCP 01 39	E 21 50	
JAN	12	06	I09	55.2					
JAN	15	21	C147	09.9	56	14	PCP 47 31	PP 49 49	E 78 50
JAN	18	12	I15	49.4	25	47	PCP 16 13		
JAN	19	09	D122	09.0			SS 32 10	LR 36 30	
JAN	20	04	I59	21.2					
JAN	20	17	I27	20.7			PP 29 42		
JAN	22	04	I10	15	12	06			
JAN	22	16	D108	47.0	16	54	I 08 57		
JAN	24	17	C126	42.4					
JAN	28	14	D116	31.7	22	22			
JAN	30	17	C 52	22	57	50			
FEB	02	09	I05	48.8			I 06 15		
FEB	05	11	I40	39.5					
FEB	06	13	C116	53.5	24	32	I 16 56	PP 18 30	PPP 19 43
FEB	06	13	I23	12.9			PCP 24 11	I 25 36	PP 26 11
FEB	07	01	I57	06.4			I 58 39	I 59 46	
FEB	13	14	I00	34.2			LQ 13 12	LR 14 25	
FEB	14	16	I43	55.0	54	28	PP 48 10	PS 57 29	
FEB	16	00	I25	00.5					
FEB	19	12	I59	16.2					
FEB	20	10					I 13 31	I 27 13	I 29 27
FEB	23	22			59	56	PP 52 30	SS 63 49	
FEB	25	04	I14	38.3					
FEB	26	18	D127	14.9			*PP 27 43		
FEB	27	15	I20	53.9	29	08	*PP 21 15	PPP 24 47	PPS 62 46
FEB	28	17	I57	39.3					
MAR	03	07	I55	28.8					
MAR	03	10	I57	28.6					
MAR	03	21	I52	10.6					
MAR	05	10	I22	23.0			I 22 25	I 22 36	
MAR	14	15	I23	35.8			I 24 06		
MAR	15	08	C106	10.2					
MAR	15	22	D137	54.9			I 38 15	I 38 39	
MAR	16	01	C113	50.8					
MAR	16	08	C154	03.6					
MAR	18	04	C145	49.5			PCP 46 57	PP 47 42	LQ 58 45
MAR	19	09	I52	22.9			I 52 32		
MAR	20	17	C150	49.2					
MAR	20	19	C111	10.4					
MAR	21	03	D155	18.7			PP 59 26	LQ 81 32	
MAR	21	15	C116	32.8			I 16 37	I 18 26	
MAR	22	04	I58	33.7					
MAR	31	12	I02	37.6			I 03 07	I 03 49	
APR	01	03	I32	35.3	40	07	PCP 33 41		
APR	02	01	C123	30.2			PCP 23 42	PP 26 13	
APR	02	16	D109	15.7	19	46	I 09 19	PP 12 09	LQ 32 30
APR	03	04	C124	36.0	34	26	PCP 24 45	LQ 43 30	
APR	03	22	C142	26.0	49	25	PCP 43 49	PP 44 19	LQ 53 28
APR	04	05	D102	57.2	10	14	PP 04 33	PPP 05 05	LQ 14 25
APR	04	08	D149	56.5	57	43	PCP 50 02	PPP 53 06	LQ 62 15
APR	04	17	I55	34.0	62	48	PCP 56 35	PP 57 35	
APR	04	18	C109	07.2			PCP 10 09	PP 11 24	

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YEAR	MTH	DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG M S A/T
1964	APR	05	01	C131 38.5	39 26	PCP 32 39	PP 33 48	LQ 44 02	
	APR	05	01	I51 09.6		PCP 52 09			
	APR	05	19	D137 12.7	44 23	PCP 38 24	PP 39 01	LQ 48 36	
	APR	07	13	C131 06.4		PP 34 34	LQ 55 11		
	APR	07	18	C111 43.8		I 12 51	PCP 12 53	LQ 23 48	
	APR	07	19	C137 56.3		I 38 05			
	APR	08	08	I20 24.1	30 09	LQ 42 07			
	APR	08	14	I19 15.1					
	APR	08	19	D142 22.3					
	APR	08	19	C159 14.5		PCP 60 25			
	APR	10	01	D117 12.3	24 49	PCP 18 23	PP 19 17	LQ 29 08	
	APR	10	21	C153 07.5	60 21	PCP 54 16	PP 55 08	LR 67 29	
	APR	12	01	C133 56.5	41 48	PCP 34 56	PP 36 00	PPP 37 06	
	APR	13	08	I35 29.1	39 41	PP 36 19	LR 42 35		
	APR	13	19	I26 08.0		I 26 13			
	APR	14	14	D128 01.0					
	APR	14	16	I04 06.5					
	APR	14	23	C104 44.0	12 21	PCP 05 44	PP 06 33	LQ 16 35	
	APR	15	15	C140 08.9	47 36	PCP 41 09	PP 42 17	LR 56 02	
	APR	15	16	D145 54.8		I 46 04			
	APR	16	13	D152 57.1	60 36	PP 55 12			
	APR	16	19	I36 21.4		PCP 37 21			
	APR	17	04	C158 54.9	66 45	I 58 57	PCP 59 55	LR 74 39	
	APR	17	09	D118 23.4	25 59	PCP 19 25	PP 20 30	LQ 31 32	
	APR	17	10	D108 47.8					
	APR	18	20	D117 48.3	25 41	LR 33 40			
	APR	19	14	I31 51.2					
	APR	20	12	D105 27.7	12 29	PCP 06 43	PP 07 18	PPP 08 09	
	APR	21	05	I10 28.1					
	APR	27	07	I04 38.9		PKS 08 19			
	APR	29	04	I28 06.3					
	MAY	01	05	I26 24.1	26 56				
	MAY	02	16	D120 47.8	28 36	PCP 21 42	PPP 24 37		
	MAY	03	07	I42 19.3					
	MAY	04	12	D113 58.2		I 14 10			
	MAY	06	15	D136 00.7	43 39				
	MAY	07	05	D157 01.5	66 31	PCP 57 12	PP 59 43	PPP 61 55	
	MAY	07	08	C108 10.6	16 17				
	MAY	07	11	D121 13.9	29 32				
	MAY	07	20	I22 45.1	30 54	I 23 08	PP 24 53	PPP 26 21	
	MAY	08	16	C131 12.2	38 43	I 31 19	PP 33 19		
	MAY	08	21	I43 30.2	50 39	I 43 34	LQ 54 53	LR 57 18	
	MAY	08	22	D102 15.5	04 30	I 02 30			
	MAY	08	23	I50 33.8	58 34	I 50 40	PP 52 48	PPP 54 26	
	MAY	09	00	I03 21.9					
	MAY	09	02	I12 17.7	19 58				
	MAY	10	05	I50 50.2					
	MAY	11	02	I25 53.3					
	MAY	11	06	I15 47.3		I 15 52			
	MAY	12	15	I29 51.5					
	MAY	12	18	I26 09.1	33 44	PCP 27 11	PP 28 11	SCS 36 01	
	MAY	12	18	I31 46.6					
	MAY	13	03	I21 51.8	23 25				
	MAY	13	05	I44 51.9	51 43	I 45 22	PP 47 48	PKS 48 21	
	MAY	13	10	I20 56.4					

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YEAR	MTH	DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG M S A/T
1964	MAY	14	09	I21 33.5	22 16				
	MAY	16	06	I07 09.6					
	MAY	16	08	D146 20.6					
	MAY	16	10	I01 19.2					
	MAY	16	14	I54 09.9					
	MAY	16	16	E27 25		PP 30 25	I 36 58		
	MAY	17	00	I59 18.0	66 40	PCP 60 15	PP 61 19	PPP 62 26	
	MAY	17	04	I51 27.4	59 20	I 51 39	SS 63 13		
	MAY	17	19	I35 08.7	42 12	I 35 16	PCP 36 18	PP 36 56	
	MAY	19	06	D111 06.6	12 51				
	MAY	19	23	E17 11	27 06	PP 21 11	PPP 23 09	PS 30 07	
	MAY	27	01	D115 43.1		PP 18 04	PKS 19 11	SKKS 28 13	
	MAY	28	02	I07 55.2					
	MAY	30	14	D141 11.1	49 41	I 41 21	PP 43 29	PPP 45 04	
	MAY	30	17	I35 37.1					
	MAY	31	00	I50 26.2	58 10	I 50 39	PP 52 43	PPP 54 01	
	JUN	02	16	E18 29	25 43	LQ 30 14			
	JUN	03	02	I58 56.5					1.7
	JUN	05	02	I43 33.8					
	JUN	05	09	I59 31.2	66 44	I 59 36	SS 70 42		
	JUN	05	22	I16 06.7	23 32	I 16 11	SS 26 00	LQ 28 01	
	JUN	06	19	D127 03.4					1.7
	JUN	07	15	E00 02		E 00 09			
	JUN	10	18	C104 41.8					1.6
	JUN	10	22	I29 19.7	39 36	I 29 51	PS 40 37		2.3
	JUN	11	18	D142 25.5					1.7
	JUN	12	16	I08 17.4		E 09 05			1.6
	JUN	13	04	E30 15	37 49				
	JUN	13	17	I45 57.9		E 46 14			
	JUN	14	12	I22 00.7					
	JUN	15	00	E17 23	27 11				
	JUN	16	04	I11 50.7	20 16	I 11 55	PP 14 10		1.9
	JUN	16	07	I03 14.9		PP 05 25			1.8
	JUN	16	07	I25 08.4		PP 27 26			1.8
	JUN	18	18	E11 25	19 19				
	JUN	20	17	I09 12.0					1.5
	JUN	22	21	D135 24.7		I 35 38			1.5
	JUN	23	01	C136 22.6	44 16	PP 38 32			
	JUN	23	05	D135 12.1					1.5
	JUN	26	07		12 46	SG 13 21			
	JUN	27	02	E36 16	42 14	SS 44 51			
	JUN	27	12	E01 59					
	JUN	28	10	I52 21.0					
	JUN	29	07	I30 10.7					
	JUN	30	12	I35 08.0		I 35 12	E 42 27		
	JUN	30	13	I59 22.8	70 17				
	JUN	30	15	C158 26.5		I 58 32	I 58 41		1.6
	JUN	30	20	I17 19.6	24 35	I 17 22	PCP 18 35	PP 19 17	2.1
	JUL	01	02	I57 08.4	64 54	*PP 57 18	SS 68 48		1.6
	JUL	01	09	E56 32	64 32				
	JUL	01	22	C157 01.0					
	JUL	03	14	I18 27.6		I 18 29			
	JUL	04	11	I02 12.9		*PP 02 24			2.1
	JUL	04	14	E00 11		E 00 20			
	JUL	05	19	E20 09	30 14	PCP 20 16	PP 23 08	PPP 24 57	

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YEAR	MTH	DY	HR	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG				
1964				M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T				
JUL 05	23			145 47.7	53 41	PCP 46 44	PP 47 55	PPP 49 08	1.6				
JUL 06	02			126 48.5	36 53	I 27 01	PP 29 49	PPP 31 51					
JUL 06	07			D134 41.1	45 04	*PP 35 07	PP 38 01	PPP 40 09					
JUL 06	10			121 06.5		I 21 15	*PP 21 30	*SP 21 43	1.6				
JUL 06	23			115 31.1									
JUL 07	04			107 20.6									
JUL 07	06			130 38.5	31 03	I 31 10	I 31 15		1.5				
JUL 07	13			E55 34									
JUL 08	07			E18 41		*PP 18 52	I 20 10						
JUL 08	07			158 41.8	69 27	I 59 04							
JUL 08	12			C108 58.3		I 09 52	PP 13 04						
JUL 09	05			C158 49.6		I 59 02			1.4				
JUL 09	12			112 48.6		I 12 51	I 13 05		1.6				
JUL 09	16			D158 25.1	65 25	I 58 28	*PPKP 58 51	*SPKP 59 01	1.9				
JUL 11	04			E55 23									
JUL 11	08			D140 11.1					1.4				
JUL 11	17			148 47.4	52 15	LR 53 22			2.0				
JUL 11	20			34 38	42 06	PCP 35 48	LQ 46 14						
JUL 12	01			155 36.7	63 53	I 55 44	PCP 56 16	PP 57 49					
JUL 13	17			124 24.9					1.3				
JUL 13	21			114 10.5									
JUL 14	05			E37 38	40 26	I 42 15							
JUL 15	19			D106 15.8					1.7				
JUL 16	05			D128 21.0	28 46				1.5				
JUL 17	02			C140 38.3	45 38	PCP 43 24			1.7				
JUL 17	04			D150 35.5	58 23	I 50 50			2.0				
JUL 18	03			146 52.2		PP 48 05							
JUL 19	06			106 10.6									
JUL 20	19			E02 24	12 49	I 02 31							
JUL 21	01			122 01.8	32 28								
JUL 21	04			107 48.8	14 43	I 07 51	PP 10 17	SKP 10 59					
JUL 21	10			C102 17.0	07 19				1.6				
JUL 21	11			155 04.2		E 55 10							
JUL 21	13			125 07.3		I 25 27							
JUL 23	19			D117 02.0		I 17 08			1.8				
JUL 24	07			D100 34.0	08 25	*PP 00 44			1.7				
JUL 24	08			D122 19.9		I 22 28			1.6				
JUL 24	13			D134 58.9									
JUL 24	17			112 29.1		I 12 34							
JUL 24	18			159 44.5									
JUL 24	20			E32 58	35 46								
JUL 25	19			E49 55	56 57	PP 51 21							
JUL 25	21			E42 31		E 42 47							
JUL 27	01			155 57.9									
JUL 27	23			E10 17	18 17								
JUL 28	18			E59 36		PP 62 44	PPP 66 08						
JUL 28	21			149 46.7	58 49	PP 52 20	PPP 54 01	SKS 59 43					
JUL 31	06			E06 24	16 57	PKP 10 37							
JUL 31	21			E26 16									
JUL 31	23			D149 50.9	52 47	PP 50 11	PPP 50 18	SS 53 12					
AUG 01	00			107 47.0									
AUG 01	01			102 50.4		I 02 51			1.6				
AUG 02	08			145 40.9	53 20	I 45 55	SS 57 34	LQ 59 29					
AUG 03	02			100 07.3	09 48	PP 03 11	PPP 05 14						
AUG 03	07			D155 51.0	65 09	*PP 56 02	PCP 56 12		1.6				

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YEAR	MTH	DY	HR	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG				
1964				M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T				
AUG 04	17			134 01.9	41 41	PPP 37 24							
AUG 05	11			E25 01		PP 27 56	SKP 28 47						
AUG 05	22			C142 26.2		I 42 36	PP 44 51	PKS 45 56	2.2				
AUG 06	16			106 16.8	07 42	E 06 21	I 07 47						
AUG 06	18			134 11.8	41 48				1.6				
AUG 08	15			D110 25.7		I 10 36	I 10 53	PP 12 52					
AUG 08	15			157 52.1									
AUG 10	01			121 51.4									
AUG 10	17			C111 02.1		I 11 05			1.8				
AUG 12	07			D101 07.6		I 01 21	I 01 47		2.0				
SEP 04	03			C140 15.7		I 40 21			1.9				
SEP 04	03			E45 49									
SEP 06	17			C145 15.3					1.5				
SEP 06	18			E53 47	64 25								
SEP 06	19			C108 56.0		*PP 09 08			1.5				
SEP 12	13				07 31	E 01 23	PS 10 25	SS 15 43					
SEP 12	22			126 45.4		I 26 49							
SEP 14	15			E29 18									
SEP 15	05			D150 49.8		*PP 50 59			1.5				
SEP 15	15			C140 57.6	50 16	I 41 00	PP 43 39	PPP 45 33					
SEP 15	21			D120 05.8		I 20 11			1.6				
SEP 16	01			137 40.3	46 54				1.9				
SEP 16	01			159 31.4									
SEP 16	22			134 05.8	42 51	I 34 12							
SEP 17	15			109 28.8	15 32	I 09 36	LQ 18 50		1.8				
SEP 18	00				20 59	E 26 53	E 29 19						
SEP 18	08			E02 04	03 36								
SEP 18	13			120 41.2	27 08	*PP 20 52	PP 22 39	LQ 30 35					
SEP 18	14			146 21.9	47 25				1.5				
SEP 19	05			E20 57	31 50	PS 32 57							
SEP 19	12			E14 55	15 53	I 16 09							
SEP 20	14			C146 20.4					2.1				
SEP 20	19					LR 06 04	E 07 05						
SEP 21	04			E41 19		SKP 43 46	PKS 44 42						
SEP 23	05			C109 28.1	17 22	PCP 10 23	PP 11 50	PPP 12 54					
SEP 23	06			C128 40.3									
SEP 26	00			154 45.3	61 47	*PP 54 58	PP 56 40	LQ 65 44					
SEP 27	16			100 17.2	07 54	PP 02 08	PPP 03 35	SS 11 39					
SEP 28	06			158 31.9		E 58 52	I 59 03						
SEP 29	14			E19 20		E 19 32	PP 21 20						
OCT 06	14			E36 05									
OCT 06	14			137 24.1		I 37 29							
OCT 06	18			E27 48	29 57	I 27 55	PP 28 05						
OCT 09	19			E39 14									
OCT 10	19			147 40.7					1.6				
OCT 10	20			D115 33.8		I 15 37			1.7				
OCT 12	15			155 45.6	66 33	I 55 49	*PP 56 04	PP 59 17					
OCT 13	14			E09 21									
OCT 13	23			C109 55.0		E 10 10			1.6				
OCT 14	03			E15 46	24 33	LQ 32 05							
OCT 14	03				30 52	E 29 22	I 31 04						
OCT 14	12					I 57 20	I 57 48						
OCT 15	20			136 40.8	44 25	I 36 54	PP 38 40	PPP 40 06	1.6				
OCT 15	23			E09 07									
OCT 16	07			D109 29.8	17 35	*PP 09 40	PP 11 25	PPP 12 59	2.0				

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YEAR	P/PKP		S/SKS		SUPP. 1			SUPP. 2			SUPP. 3			LOG				
1965	MTH	DY	M	S	M	S	PHASE	M	S	PHASE	M	S	PHASE	M	S	A/T		
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
JAN	01	21			51	22		SS	53	58								
JAN	02	13	CI	156	17.0	66	12		I	56	28	*PP	56	46	PS	66	42	3.7
JAN	02	18		122	13.4													
JAN	04	11	CI	142	42.8													1.9
JAN	05	18						SKKS	33	53		SS	44	30				
JAN	09	13	DI	145	04.7				I	45	09							
JAN	10	02	DI	157	30.5				I	57	37							
JAN	10	13	DI	155	14.9	61	47	PKP	56	22		PPP	58	52				1.8
JAN	11	20	CI	123	58.9													
JAN	12	13	CI	141	45.0				I	41	52							
JAN	15	06	CI	06	12.6				PP	07	09		PPP	07	26			2.4
JAN	23	16		144	04.0				I	44	10							
JAN	23	22		101	34.3													
JAN	24	00	DI	124	33.8				I	24	46		PP	28	33			
JAN	24	22		140	56.8	42	30		I	41	15							
JAN	26	23	DI	157	54.8													1.6
FEB	02	16	CI	04	23.6	10	23		I	04	29							
FEB	04	05		103	43.0			PCP	04	31		PP	05	48	PPP	06	56	1.7
FEB	04	05		111	03.5													
FEB	04	06		143	55.1													
FEB	04	06	CI	146	33.5				I	46	44							2.0
FEB	04	06	CI	149	09.2				I	49	49		PP	51	28			
FEB	04	07	CI	102	24.9													2.0
FEB	04	07	CI	121	06.9				I	21	13							
FEB	04	07		124	34.7				*PP	24	44		PCP	25	32	PP	26	47
FEB	04	07		132	48.1				*PP	32	55							
FEB	04	07		150	15.0													
FEB	04	07	CI	153	11.9													
FEB	04	08		103	12.0													
FEB	04	08		113	44.0													
FEB	04	08	CI	115	51.0													
FEB	04	08		143	16.1				*PP	43	27							
FEB	04	08		150	23.7				I	50	26							
FEB	04	09	CI	108	50.2													
FEB	04	09		110	06.0													
FEB	04	09		121	37.5													
FEB	04	09	CI	129	44.1													
FEB	04	09		145	00.0				I	45	07							
FEB	04	09		147	08.4				*PP	47	16							1.7
FEB	04	10		149	04.0													
FEB	04	10	CI	151	14.9				I	51	23							
FEB	04	11	DI	110	07.9				*PP	10	20							1.8
FEB	04	11		158	06.0													
FEB	04	13		100	36.3				I	00	44							
FEB	04	14	CI	127	52.7	35	30											
FEB	04	16	CI	100	48.4				I	00	57							2.5
FEB	04	16		142	09.4				*PP	42	18							
FEB	04	17	DI	114	20.4				I	14	26							
FEB	04	17							I	27	13							
FEB	04	18							I	00	27							
FEB	04	18							I	23	40							
FEB	04	18	DI	143	49.6													2.0
FEB	04	18		157	46.6			PKPPKP	58	44								
FEB	04	19		107	44.7													
FEB	04	19		111	02.0				*PP	11	12							

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YEAR	P/PKP		S/SKS		SUPP. 1		SUPP. 2		SUPP. 3		LOG
1965	M	S	M	S	PHASE	M	S	PHASE	M	S	A/T
MTH DY	HR										
FEB 04	19	C155	34.7								
FEB 04	20	D107	28.7								
FEB 04	20	DI42	04.8						I 42 17		2.0
FEB 04	21	I39	11.1								
FEB 04	22	C139	42.3								
FEB 04	23	I36	07.3								
FEB 05	00	DI41	11.8						I 41 34	I 41 45	PCP 42 08
FEB 05	00	I51	53.6								1.6
FEB 05	02	I38	03.8								
FEB 05	02	DI43	14.2								
FEB 05	03	I08	08.0								
FEB 05	05	DI14	49.0								
FEB 05	05	I16	30.2								1.4
FEB 05	06	DI35	01.6								
FEB 05	06	DI49	27.3								
FEB 05	06	DI49	27.3								
FEB 05	07	DI28	51.7								
FEB 05	07	I41	11.1								
FEB 05	09	I00	57.3								
FEB 05	09	I41	40.6								
FEB 05	12	I39	10.0								
FEB 05	13	DI48	20.9								
FEB 05	14	I01	21.3								1.8
FEB 05	14	I17	59.7								
FEB 05	14	I38	19.5								
FEB 05	19	I10	16.0								
FEB 05	20	DI56	49.7	64 42							
FEB 05	21	C158	13.2								
FEB 05	22	C125	41.3								
FEB 06	01	I25	56								
FEB 06	01	DI50	17.7	58 14	PKPPKP	51 07					
FEB 06	01	I56	49.5								
FEB 06	04	C112	28.3								
FEB 06	06	DI33	13.2								
FEB 06	06	DI37	51.8								
FEB 06	07	C124	18.5								
FEB 06	08	I56	27.1								
FEB 06	09	I04	15.3								
FEB 06	12	DI32	04.2								
FEB 06	14	I20	46.7								
FEB 06	14	C144	09.9								
FEB 06	17	I00	12.1	08 07							
FEB 06	18	DI20	10.3								
FEB 06	18	E52	10								
FEB 06	19										
FEB 06	23	I33	21.5								
FEB 07	01	I09	45.0								
FEB 07	02	C126	47.9								
FEB 07	04	C120	57.7								
FEB 08	15	DI55	51.9	63 09							
FEB 09	17	DI46	42.5								
FEB 12	00	E52	57								
FEB 12	01	C104	39.6	12 29							
FEB 13	16										
FEB 14	17	I57	44.1	59 17							

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YEAR	P/PKP		S/SKS		SUPP. 1		SUPP. 2		SUPP. 3		LOG
1965	M	S	M	S	PHASE	M	S	PHASE	M	S	A/T
MTH DY	HR										
FEB 14	19	C139	16.7	40 48							
FEB 15	01	C134	53.8	42 51							
FEB 15	05	I10	59.0								
FEB 15	10	C156	12.4								
FEB 15	12	I40	46.6	46 04							
FEB 16	12	I34	17.7								
FEB 16	20										
FEB 16	21	C119	23.0								
FEB 17	18	C135	16.7								
FEB 18	04	I36	24.1								
FEB 18	08	C143	46.7								
FEB 25	05	I31	46.3								
FEB 26	20	S*	11 01								
FEB 27	11	I38	39.3								
MAR 01	08	C130	10.9								
MAR 01	13	DI32	10.2								
MAR 01	19	I31	35.6								
MAR 01	21	DI44	44.7	55 02							
MAR 02	09	I33	50.1	35 18							
MAR 02	09	CE54	54	56 24							
MAR 02	21	C147	03.4	55 33							
MAR 03	06	DI21	11.0								
MAR 03	16	C156	53.2								
MAR 06	20	E35	14	44 34							
MAR 07	02										
MAR 09	18	E04	08	09 13							
MAR 10	04	E05	59								
MAR 13	07	C143	08.1								
MAR 16	16	C156	16.5	64 25							
MAR 17	13	E21	15								
MAR 17	14	C136	40.8	44 15							
MAR 17	18	I27	32.8								
MAR 20	02	E45	42	46 13							
MAR 21	11	E21	30								
MAR 22	03	I03	41.6	10 46							
MAR 22	11	C142	39.0								
MAR 23	12	C154	42.6								
MAR 24	08	I17	28.1								
MAR 24	13	I39	19.5								
MAR 24	22	E54	40								
MAR 25	09	C102	45.4								
MAR 26	16	DI22	20.2								
MAR 28	13	I31	54.0	39 04							
MAR 28	16	E48	59								
MAR 29	00	DI18	07.5								
MAR 29	10	C157	38.6	65 46							
MAR 29	14	I42	17.6								
MAR 30	02	DI36	54.9	44 58							
MAR 30	04	DI42	39.3								
MAR 30	06	DI34	53.5								
MAR 30	12	I07	12.4								
MAR 30	12	C120	15.5								
MAR 30	16	C109	34.9								
MAR 31	09	C153	46.6	58 23							
APR 03	11	E33	29	43 59							

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YEAR	KIRKENES (KRK) SEISMIC STATION BULLETIN - 1965												PAGE 4
1965	P/PKP	S/SKS	SUPP. 1		SUPP. 2		SUPP. 3		LOG				
MTH DY	HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	PHASE M S	PHASE M S	M S	A/T			

APR 04	13	D140	15.5	47 59	*PP 40 22	PCP 41 14	I 41 20						
APR 05	03	D119	22.6	24 40	I 19 28	I 19 47	PP 20 41						
APR 05	14	E02	00		*PP 02 17	PCP 02 46							
APR 05	17	I35	19.8										
APR 06	05	C142	20.5										2.1
APR 06	09	E55	30	65 58	*PP 55 42	PP 59 03	S 66 20						
APR 08	13	D153	24.5	61 07	I 53 28	PP 55 19	PPP 56 51						1.8
APR 09	14	C142	27.1										
APR 10	00	D103	50.8	09 17	I 03 58	PPP 05 36	SS 10 59						2.2
APR 10	17	C104	23.2		*PP 04 29								2.3
APR 10	22	I50	45.6										2.0
APR 11	00	D130	52.1		PKP2 30 58								
APR 12	20	C151	33.6										
APR 14	07	D145	05.5		*PP 45 14								
APR 16	23	C130	41.7	37 26	I 30 56	PCP 32 07	SS 40 43						
APR 17	00	D109	58.7										1.7
APR 18	09	I58	37.2		PP 61 13	PKS 62 07	PPP 64 15						
APR 18	13	E01	11		PKS 04 38								
APR 19	08				I 18 27								
APR 19	23	D152	27.6	61 01	I 52 29								
APR 20	06	C152	38.4										2.0
APR 20	06	D159	18.4										1.4
APR 20	17	I27	51.3										
APR 22	18	D145	39.4										
APR 24	03	E18	30										
APR 24	08	I13	50.9		E 13 59	E 14 05							
APR 24	20	D122	09.5										
APR 24	22	D108	02.8										
APR 25	00	I31	26.8										
APR 25	01	I11	52.8		I 11 59								2.4
APR 25	01	D158	43.3		E 58 49								1.4
APR 25	02	I34	58.4										
APR 25	05	D149	48.1										
APR 25	08	D149	07.4										1.7
APR 25	10	E12	34										
APR 25	12	I50	03.0										
APR 25	14	C117	14.1		PCP 17 34								1.7
APR 25	15	I33	19.7		*PP 33 31								
APR 25	15	E42	13		*PP 42 24								
APR 25	16	I47	27.7										
APR 26	02				I 06 31								
APR 26	10	E00	43										
APR 26	13	E38	24		I 38 31								
APR 26	20	D138	41.5		PCP 39 40								2.3
APR 26	22	D126	56.3	36 11									2.1
APR 27	14	C115	48.8		I 15 53	I 15 59							1.7
APR 27	14	C159	35.3										
APR 29	15	E38	56	47 11									
MAY 03	17	D150	34.3										1.4
MAY 04	08	I41	57.5	47 24	I 42 05	I 42 17							
MAY 04	17				I 35 28								
MAY 05	23	C111	32.5		E 12 05								1.4
MAY 05	23	E35	56		I 36 05								
MAY 07	02	D141	36.4										1.3
MAY 07	13	E21	26		PKS 24 59								

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YEAR	KIRKENES (KRK) SEISMIC STATION BULLETIN - 1965												PAGE 5
1965	P/PKP	S/SKS	SUPP. 1		SUPP. 2		SUPP. 3		LOG				
MTH DY	HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	PHASE M S	PHASE M S	M S	A/T			

MAY 08	01	E27	35										
MAY 11	17	E46	22					I 46 46					
MAY 12	10	CI47	12.3										1.4
MAY 13	19	D133	25.2										
MAY 16	11	I48	27.9										
MAY 17	17	CI30	34.8	39 40				I 30 38	PP 33 23	PPP 35 08			2.0
MAY 19	23	CI50	18.2										1.7
MAY 20	00							I 59 12					
MAY 22	03	I18	45.9										
MAY 23	23	D155	48.9	63 32				I 55 56	PCP 56 47	PP 57 56			
MAY 24	23	CI33	15.0	43 12				I 33 24	PP 36 11				2.0
MAY 25	13	I17	34.8					I 17 45					
MAY 26	20	I03	10.1					I 03 42					
MAY 31	02	E13	04		*PP 13 15			I 13 35					
MAY 31	08	CI48	24.4		I 48 29	I 48 51	PCP 49 04						
JUN 01	04	I43	05.3					PCP 43 27					
JUN 01	08	I01	27.0		*PP 01 37	I 01 44							1.8
JUN 01	15	I26	36.4	33 05									
JUN 02	23	I51	38.2	60 56				LR 74 34					1.8
JUN 03	07	CI53	13.7					PCP 54 12					1.9
JUN 03	11	I08	57.2										
JUN 03	18							I 50 35					
JUN 03	20	I40	11.1										
JUN 04	13	I43	27.1										
JUN 04	14	DE00	16										
JUN 04	15	I12	03.7										
JUN 04	15	I45	49.6										
JUN 06	09	I48	08.7					E 48 26					
JUN 08	06	I25	01.8										
JUN 08	13	I52	19.9										
JUN 09	13	CI36	23.6										
JUN 10	05	I56	26.4					I 56 37					1.9
JUN 11	02	D147	11.7		*PP 47 21								
JUN 11	03	CI43	30.8	51 14	*PP 43 44	PCP 44 21	PP 45 39						1.9
JUN 13	07	I16	09.6	24 12	*PP 16 24								
JUN 13	20	I08	15.4	13 32				LQ 21 59					
JUN 14	13	I25	49.1					I 25 53					1.9
JUN 14	16	I59	02.5					E 59 09					
JUN 15	04	I56	06.5	64 08									
JUN 15	08	I08	43.4										
JUN 15	09	I39	53.2										1.7
JUN 15	15	I24	34.3										
JUN 15	16	I51	00.3										
JUN 16	05	I08	37.8										
JUN 16	23	I57	50.7										
JUN 17	03	I51	09.6										
JUN 17	10	I54	37.2										
JUN 17	19	D114	42.2					I 14 53					1.8
JUN 17	20	CI23	39.4					I 23 44					1.9
JUN 18	01	D127	24.6					E 27 50					1.7
JUN 18	08	I27	27.6					*PP 27 40					
JUN 18	13	I57	22.1					I 57 29					1.6
JUN 18	23	I08	50.9										
JUN 19	06	CI47	41.1	55 25				I 47 51					2.2
JUN 20	02	I07	12.6					PCP 08 06					

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YEAR	P/PKP		S/SKS		SUPP. 1		SUPP. 2		SUPP. 3		LOG				
1965	MTH	DY	HR	M	S	M	S	PHASE	M	S	PHASE	M	S	A/T	
SEP 04	14	CI41	59.7	49	22	I	42	06	PCP	43	12	PP	44	44	2.5
SEP 06	03	DE29	54	39	08										
SEP 07	07	I09	06.6	18	42	PCP	09	19							1.6
SEP 08	03	I35	37.4	43	06	*PP	35	44							
SEP 08	07	I13	29.7												1.9
SEP 08	11	CI26	02.8	33	42	I	26	11	I	26	17				1.8
SEP 09	10	I15	36.7	26	15	*PP	15	48	PP	19	10	S	26	44	
SEP 10	15	I11	36.6												1.8
SEP 10	19	DI36	07.7			I	36	13							1.7
SEP 11	07			17	46	SKKS	18	32	PS	20	43				
SEP 12	09			05	01	SKKS	05	48	S	06	18				
SEP 12	22	CI06	03.6												2.0
SEP 12	22	DI14	46.8	24	52	PCP	14	53	*PP	14	58	SKS	25	28	2.5
SEP 13	13	DI16	56.7	24	06	I	17	07	PCP	18	15	PP	19	36	
SEP 14	05	DI04	26.5												1.7
SEP 16	14	CI02	31.2	12	48	I	02	53	PP	06	10	SP	13	56	2.0
SEP 17	00	DE04	19												
SEP 17	04	I06	10.4												
SEP 17	11	I27	09.7			*PP	27	56							
SEP 17	13	I09	40.4												
SEP 17	13	I31	23.2			*PP	31	35							
SEP 17	14	DI33	04.1			*PP	33	13							
SEP 17	15	CI29	01.1	37	33	I	29	13	PCP	29	35				
SEP 17	16	I31	43.9	40	15	*PP	31	55	PCP	32	22	PP	34	01	
SEP 18	20	DE55	40	63	03										
SEP 18	22	DE15	45	26	10										
SEP 19	09	CI00	09.9			I	00	28							1.9
SEP 21	01	DE48	56	57	27	I	49	07	*PP	49	43	SCS	58	30	
SEP 21	03	I35	24.4			I	35	48							
SEP 22	04	I35	16.2	43	25										
SEP 24	17	DE26	25												
SEP 24	20	I49	58.4												
SEP 25	00	DI06	18.5			I	06	29							1.8
SEP 25	00	CI23	34.0												1.6
SEP 25	14	CI47	23.9	55	41	I	47	30	PCP	48	04				1.8
SEP 25	14	I52	37.0												
SEP 25	15	CI03	43.6			*PP	03	54	I	04	06				1.9
SEP 25	15	I55	02.8												1.9
SEP 25	17	I04	48.8												
SEP 26	21	DE53	07			PP	55	39	PKS	56	38				
SEP 27	05	CI18	49.8			*PP	19	01	I	19	08	PCP	19	48	1.9
SEP 28	05					PP	28	56	I	30	23	PPP	31	31	
SEP 29	13	DE59	08												
SEP 29	23	I27	32.4			I	27	37							
SEP 30	23	DE56	38	64	26	PP	58	10	PCP	58	31				
OCT 01	09	DI01	58.2	09	54	*PP	02	10	PCP	02	50	PP	04	11	1.7
OCT 03	10	DI56	02.5			PCP	56	57							
OCT 03	14	I54	55.4												
OCT 04	05	I46	00.9												
OCT 06	15	CI42	17.8			E	42	23							2.4
OCT 07	03	CI48	49.9	57	35	PCP	49	01	I	49	13	SCS	58	08	2.7
OCT 08	06	I06	10.3			I	06	17							
OCT 12	13	I50	25.6	58	06	I	50	36							1.9
OCT 13	03	DE57	06			I	57	11							
OCT 13	15	I53	22.1												

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YEAR	P/PKP		S/SKS		SUPP. 1		SUPP. 2		SUPP. 3		LOG				
1965	MTH	DY	HR	M	S	M	S	PHASE	M	S	PHASE	M	S	A/T	
OCT 18	10	I28	54.3												
OCT 18	22	DE03	23												
OCT 19	20	DI58	19.1	66	02	*PP	58	32	I	58	39	SKKS	14	35	
OCT 23	06	DI10	29.7												
OCT 25	22	CI43	53.2	51	28	I	44	14	PCP	44	47	PP	46	50	2.3
OCT 28	01	CI56	21.5			*PP	56	37							1.8
NOV 03	01	CI51	58.9	61	40	*PP	54	05	PP	56	21	SP	64	28	
NOV 07	18	E13	35												
NOV 08	02	CI05	35.2			I	05	46							
NOV 08	21	DI30	58.7												
NOV 11	03					E	35	12							
NOV 11	19					I	01	24							
NOV 12	03					E	22	34							
NOV 12	17	DI25	14.5												
NOV 12	18	DI03	23.1			I	04	00							2.1
NOV 12	19	I01	49.6												
NOV 13	04	CI41	12.5	47	08	*PP	41	28	PP	42	42	PCP	43	10	2.8
NOV 13	06	DI23	05.6			I	23	16							
NOV 13	10	E53	14												
NOV 14	06	I04	36.7			*PP	04	49							
NOV 15	11	I30	43.4			*PP	30	55							
NOV 16	01	CI11	08.2			*PP	11	58	PP	12	49				
NOV 16	15	DI34	16.8	42	05	LR	50	11							2.3
NOV 16	17	CI16	30.4			*PP	16	53	E	38	08				1.8
NOV 17	22	DI07	21.1			I	07	34							2.1
NOV 17	22	I18	34.5			I	18	47							
NOV 20	09	E03	23			E	20	50							
NOV 20	15	CI19	09.5	29	24	I	19	13							1.8
NOV 21	05	I04	09.5												
NOV 21	10	DI45	22.6	56	38	PKP	49	26	I	50	09	SKS	55	47	
NOV 22	00	I13	18.1	14	54										
NOV 22	20	I35	17.6	43	29										
NOV 23	01	E30	21												
NOV 23	02	I27	34.2												
NOV 27	03	I15	16.4												
NOV 27	08	CI53	06.0												2.1
NOV 28	05	I32	40.6	37	57	*PP	32	58	PCS	38	56				2.5
NOV 28	21	DI44	32.6			I	44	41							2.0
DEC 02	06	DI08	26.6												
DEC 03	15	I24	18.3												
DEC 03	21	I25	06.5			*PP	25	17	PP	26	41	PPP	27	09	
DEC 04	02	CI21	47.1			I	22	05							1.6
DEC 05	18	CI24	20.0	31	58	I	25	21							2.3
DEC 06	08	E03	57												
DEC 06	11	E47	38	58	13	SS	63	49							
DEC 08	18	I24	34.9			PKP	24	41							
DEC 09	06	E20	26	31	06	PP	23	50							
DEC 09	13					I	30	45							
DEC 13	11	DI01	57.7	09	55	*PP	02	10							
DEC 15	23	I18	23.6	29	17	I	18	31	I	18	35	PP	22	00	
DEC 20	00	I14	16.3	19	17	I	14	55	I	15	12	I	15	37	
DEC 21	10					I	59	51							
DEC 22	00	I38	04.2			*PP	38	15							
DEC 22	07	I36	34.8												
DEC 22	19	DI50	29.4	57	50	*PP	50	45	SCS	60	16	LR	65	11	2.5

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1965	P/PKP		S/SKS		SUPP. 1		SUPP. 2		SUPP. 3		LOG	
MTH DY	HR	M	S	M	S	PHASE	M	S	PHASE	M	S	A/T
DEC 23	20	C156	29.2	63	41	*PP	56	38	I	57	15	2.3
DEC 26	04					SKS	17	51	SKS	18	31	PS 20 22
DEC 28	20	143	42.5	52	58	*PP	43	53				
DEC 30	02	C116	09.5			I	17	08				